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The Files - MD-93, T.O. 1

18 March 1959

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Conference Report - Subministure Recorder, CB-7

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the purpose of this meeting was to discuss recent progress on this task. Those participating were:

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2. This project had been temporarily suspended in March 1958 to ellew for an Agency review. In February 1959 action was initiated to reactivate this project for a period of two months utilizing remaining funds. As of this date the contractor has not been officially notified to proceed with this test; however, they have started on their own. During the past two weeks they had reported by telecon that they had made several improvements on the CB-7 recorder. During a telecom on 27 rebruary 1959, their new effort and they feel production will soon be quite feasible. Also they stated that they would have evidence of their success in two or three weeks. In another telecon from the condition of their success in two continued to have made substantial gains toward an engineering model representative of what can be expected as a finished product. When questioned about when we could obtain this unit, said, very possibly by the end of March. This trip was made primarily to discuss these improvements and to provide guidance to the contractor on the packaging of the

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3. The representatives presented their improvements to the CB-7 in a breakboard form. With the exception of the motor, the unit was entirely different from the CB-7 model shows to the writer on the last trip to in Jenuary 1959. The tape magnains had two reals approximately 1 1/4 inches in diameter placed one on top of the other. The tape travel was from the top real past the record head to the bettom real, at a tape speed of 1.63 ips. The magnains was enally inserted into the tape transport from the end via a guided channel and its simplicity in design should facilitate quantity fabrication.

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- 4. The new tope transport configuration has made additional space available for betteries to power the drive motor and provided other features such as, a one-minute tape-left warning device, as end-of-tape stop, and a start-stop switch. The dimensions of the tope transport including the tape magazine will be 2 1/4 x 1 1/2 x 9/16 inches. Due to this new design the motor load current is now approximately 17 mm which will considerably extend motor bettery life. The latest CB-7 unit, prior to this new design had a current drain of 30 me which made the bettery life unacceptable.
- 5. The new record amplifier will not be more than $2.1/4 \times 1.1/2 \times$ 3/6 inches in dimensions. This unit will include a microphone and preemplifier and a record amplifier. It will have provisions for a high level input connection from external equipment and an output connection to the record bead.
- 6. Became they were currently modifying the playback unit the only demonstration they could provide use the operation of the breadboard tape transport with tape amgasine inserted.

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- maid they would need more time and funds to construct an engineering model of this configuration. The writer questioned as to what model he was referring to in our telecon 7. At this time of 3 March 1959. The writer got the impression that the unit mentioned during this telecon, to be delivered by the end of March 1959, was an engineering model. explained that this would be a breadboard model of the new unit to prove the principals of operation and could not be considered as an engineering model.
- 8. After joint consideration of the new aspects by the writer, we decided that we would accept the breadboard model and an engineering report rather than provide additional time and funds. This should provide sufficient information on which to bose specifications for an engineering model and prototype febrication. said be could have the bromboard model ready by 15 April 1959 but it would have certain limitations which can be corrected without difficulty with dditional time and funds and should be considered if any testing of the unit is combacted. They are:
 - a. Frequency response of the unit propably vill not meet the specifications because the head design is not as good so it should be.
 - b. Motor reliability will probably be poor because it was the only one fabricated and it has been subjected to rough duty during the development of the CB-7 recorder.
 - 9. The following agreements were made at this meeting:

will deliver a final engineering report 25X1A5a1 at the end of the two month's work ones this task.

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- recorder and the playback unit by 15 April 1959 with the limitations as stated in paragraph 5.
- group (SPS/HA) or pursuantel properly briefed on the limitations of the units.

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